




Servo-assisted 2/2-way diaphragm valve

- Servo-assisted diaphragm valve up to DN 65 orifice
- Separating diaphragm for aggressive and contaminated media
- Closing and opening times can be adjusted individually
- Explosion-proof versions (Cat.2)
- Service-friendly manual override

Product variants described in the data sheet may differ from the product presentation and description.

Can be combined with

- | | | |
|---|---|---|
|  | Type 2518
Cable plug,
form A according to
DIN EN 175301 - 803 | ▶ |
|  | Type 1087
Timer,
form A according to
DIN EN 175301 - 803 | ▶ |
|  | Type 2509
Cable plug,
form A according to
DIN EN 175301 - 803 | ▶ |

Type description

The 5282 valve is a servo-assisted diaphragm valve. A minimum differential pressure is required for the valve to function. Various diaphragm material combinations and circuit functions are available depending on the application. The standard brass body satisfies all European drinking water requirements. The body offering is completed with stainless steel versions. The 3/2-way pilot valve can be easily converted from NC to NO circuit function by rotating it on the armature. The solenoid coils are moulded with a chemically resistant epoxy. The 5282 is equipped with manual override for start-up and testing. NEMA 4X is available on request.

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1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "5. Dimensions" on page 7.
Material	
Seal	NBR, EPDM, FKM
Flange body	Stainless steel 1.4581/316CB
Threaded body	Brass CW617 N DN 13 stainless steel CF3M DN 20...DN 50 stainless steel 1.4581/316CB
Coil	Epoxy
Internal valve parts	Stainless steel, brass
Orifice	DN 13...DN 65
Circuit function	Further information can be found in chapter "2. Circuit functions" on page 4.
Thermal insulation class of solenoid coil	Epoxy coil class H
Performance data	
Duty cycle	100 % continuous operation
Switching time ^{1.)}	Opening: 0.1...0.8 s Closing: 1.0...4.0 s
Electrical data	
Operating voltage	24 V/DC, 24 V/56 Hz, 120 V/60 Hz, 230 V/56 Hz, 240 V/60 Hz, 24 V/AC/DC, 230 V/AC/DC
Power consumption	
Standard version	Inrush: AC 30 VA Operation: AC 15/8 VA W DC cold/hot: 11/8 W
Explosion-proof version	Inrush: AC 40 VA Operation: AC 3 VA W DC cold/hot: 40 W inrush / 3 W operation
Voltage tolerance	± 10 %
Medium data	
Operating medium	
NBR	Neutral media (e.g. compressed air, water, hydraulic oil)
EPDM	Oil and grease-free media, alkalis, hot water
FKM	Hot air, per solutions, hot oils
Medium temperature	
NBR	+32 °F...+176 °F
EPDM	-13 °F...+194 °F
FKM	+32 °F...+194 °F
Process/Port connection & communication	
Electrical connection	
Standard version	<ul style="list-style-type: none"> Cable plug Type 2518 ▶, form A according to DIN EN 175301 - 803 Further information can be found in chapter "Cable plug Type 2518, form A according to DIN EN 175301 - 803" on page 18. Cable plug Type 2509 ▶, form A according to DIN EN 175301 - 803 Further information can be found in chapter "Cable plug Type 2509, form A according to DIN EN 175301 - 803" on page 18.
Explosion-proof version	With moulded 3 meter cable, 3 × 0.5 mm ² With terminal box
Approvals and conformities	
Directive	CE, EAC
Degree of protection	IP65 with cable plug according to DIN EN 175301 - 803 form A IP65 with cable connection or terminal box
Explosion protection	Further information can be found in chapter "3.4. Explosion protection" on page 4.
North America (USA/Canada)	Further information can be found in chapter "3.5. North America (USA/Canada)" on page 5.
Others	Further information can be found in chapter "3.7. Others" on page 5.
Environment and installation	
Installation position	Any, preferably actuator face up
Ambient temperature	Max. +131 °F

1.) Measurement at +68 °F, 87 psi at the valve outlet, opening: pressure build-up 0...90 %, closing: pressure reduction 100...10 %
The switching time can be changed by turning the throttle screws (in the housing lid).

2. Circuit functions

Symbol	Description
	Circuit function A (CF A) 2/2-way solenoid valve Servo-controlled Normally closed
	Circuit function A (CF A) 2/2-way solenoid valve Servo-controlled, with manual override Normally closed
	Circuit function B (CF B) 2/2-way solenoid valve Servo-controlled Normally open
	Circuit function B (CF B) 2/2-way solenoid valve Servo-controlled, with manual override Normally open

3. Approvals and conformities

3.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available versions can be supplied with the below mentioned approvals or conformities.

3.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

3.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

3.4. Explosion protection

Approval	Description					
 	Optional: Explosion protection Ex marking of the components according to the following table:					
	<table border="1"> <thead> <tr> <th>Coils with fixed cable outlet</th> <th>Coils with terminal box</th> </tr> </thead> <tbody> <tr> <td> ATEX: EPS 16 ATEX 1111X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db </td> <td> ATEX: EPS 16 ATEX 1111X II 2G Ex eb mb IIC T4 Gb II 2D Ex mb tb IIIC T130 °C Db </td> </tr> <tr> <td> IECEX: IECEX EPS 16.0049X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db </td> <td> IECEX: IECEX EPS 16.0049X II 2G Ex eb mb IIC T4 Gb II 2D Ex mb tb IIIC T130 °C Db </td> </tr> </tbody> </table>	Coils with fixed cable outlet	Coils with terminal box	ATEX: EPS 16 ATEX 1111X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db	ATEX: EPS 16 ATEX 1111X II 2G Ex eb mb IIC T4 Gb II 2D Ex mb tb IIIC T130 °C Db	IECEX: IECEX EPS 16.0049X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db
Coils with fixed cable outlet	Coils with terminal box					
ATEX: EPS 16 ATEX 1111X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db	ATEX: EPS 16 ATEX 1111X II 2G Ex eb mb IIC T4 Gb II 2D Ex mb tb IIIC T130 °C Db					
IECEX: IECEX EPS 16.0049X II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T130 °C Db	IECEX: IECEX EPS 16.0049X II 2G Ex eb mb IIC T4 Gb II 2D Ex mb tb IIIC T130 °C Db					

3.5. North America (USA/Canada)

Approval	Description
	<p>Valid for valves: UL Listed for the USA The valves are UL Listed for the USA according to:</p> <ul style="list-style-type: none"> UL 429 (electrically operated valves) and UL 429A (Electrically Operated Valves for Fire Protection Service)
	<p>Valid for coils: UL Hazardous Locations – Explosion Protection UL Listed for Hazardous Locations for USA and Canada Class I, Zone 1 Class I, Division 2, Group A, B, C and D Class II + III, Division 2, Group F and G</p>
	<p>Valid for valves: UL Recognized for the USA The valves are UL Recognized for the USA according to:</p> <ul style="list-style-type: none"> UL 429 (electrically operated valves) and UL 429A (Electrically Operated Valves for Fire Protection Service)
	<p>Valid for valves: CSA for Canada The valves are CSA approved for Canada according to:</p> <ul style="list-style-type: none"> CSA 139 (electrically operated valves)
	<p>Valid for coils: FM (Factory Mutual) – Explosion Protection FM for Hazardous Locations for USA and Canada Class I, Zone 1 Class I, Division 1, Groups A, B, C and D Class II + III, Division 1, Groups E, F and G</p>

3.6. Drinking water

Conformity	Description
	<p>Suitable for use in drinking water applications The materials comply with the assessment principles (UBA) for materials in contact with drinking water (TrinkwasserV).</p> <p>PF39: Suitable for products with a maximum temperature of 85 °C (hot water) PF36: Suitable for products with a maximum temperature of 60 °C (warm water)</p>

3.7. Others

DNV GL classification

Approval	Description
	<p>DNV GL classification – Ships, offshore units, and high speed and light craft The products are accepted for installation on all vessels classed by DNV GL.</p>

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4. Materials

4.1. Bürkert resistApp

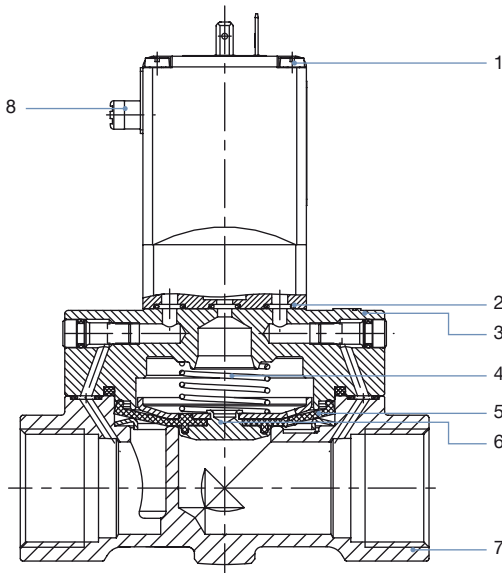


Bürkert resistApp – Chemical resistance chart

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

[Start chemical resistance check](#)

4.2. Material specifications



No.	Element	Material
1	Coil	Epoxy
2	O-rings	NBR, EPDM, FKM
3	Cover	Brass DN 13 stainless steel 1.4408/316 DN 20...DN 50 stainless steel 1.4581/316CB
4	Springs	Stainless steel 1.4310/302
5	Diaphragm	NBR, EPDM, FKM
6	Diaphragm holder	Brass, stainless steel 1.4401/316
7	Valve body	Brass DN 13 stainless steel CF3M DN 20...DN 50 stainless steel 1.4581/316CB
8	Manual override	PA

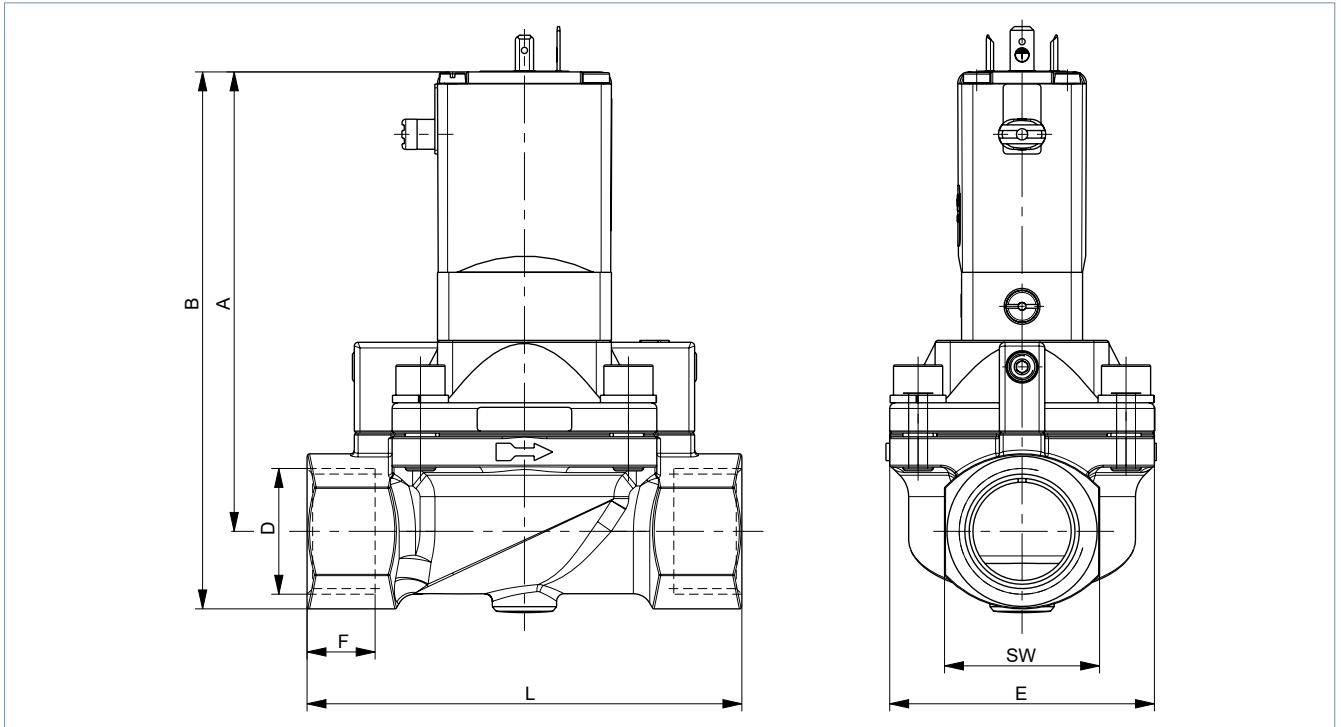
5. Dimensions

5.1. Standard version

Threaded version

Note:

Dimensions in mm [inch]



Body material	DN	A		B		D [Zoll]	F		E		L		SW	
		[mm]	[in]	[mm]	[in]		[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]
Brass	13	109	4.29	123	4.84	NPT 1/2	13.7	0.54	40	1.57	65	2.56	27	1.06
	20	115	4.53	131	5.16	NPT 3/4	14	0.55	60	2.36	100	3.94	32	1.26
	25	121.5	4.78	142	5.59	NPT 1	16.8	0.66	70	2.76	115	4.53	41	1.61
	32	122	4.80	147	5.79	NPT 1 1/4	17.3	0.68	85	3.35	126	4.96	50	1.97
	40	126	4.96	156.5	6.16	NPT 1 1/2	17.3	0.68	85	3.35	126	4.96	60	2.36
	50	142.5	5.61	177.5	6.99	NPT 2	17.6	0.69	115	4.53	164	6.46	70	2.76
Stainless steel	13	108	4.25	124	4.88	NPT 1/2	13.7	0.54	40	1.57	65	2.56	32	1.26
						NPT 3/4	14	0.55						
	20	115	4.53	131	5.16	NPT 1/2	13.7	0.54	60	2.36	100	3.94	32	1.26
						NPT 3/4	14	0.55						
	25	121.5	4.78	142	5.59	NPT 1	16.8	0.66	70	2.76	115	4.53	41	1.61
	32	122	4.80	147	5.79	NPT 1 1/4	17.3	0.68	85	3.35	126	4.96	50	1.97
	40	126	4.96	156.5	6.16	NPT 1 1/2	17.3	0.68	85	3.35	126	4.96	60	2.36
	50	142.5	5.61	177.5	6.99	NPT 2	17.6	0.69	115	4.53	164	6.46	70	2.76
65	142.5	5.61	185	7.28	NPT 2 1/2	23.6	0.93	115	4.53	180	7.09	85	3.35	

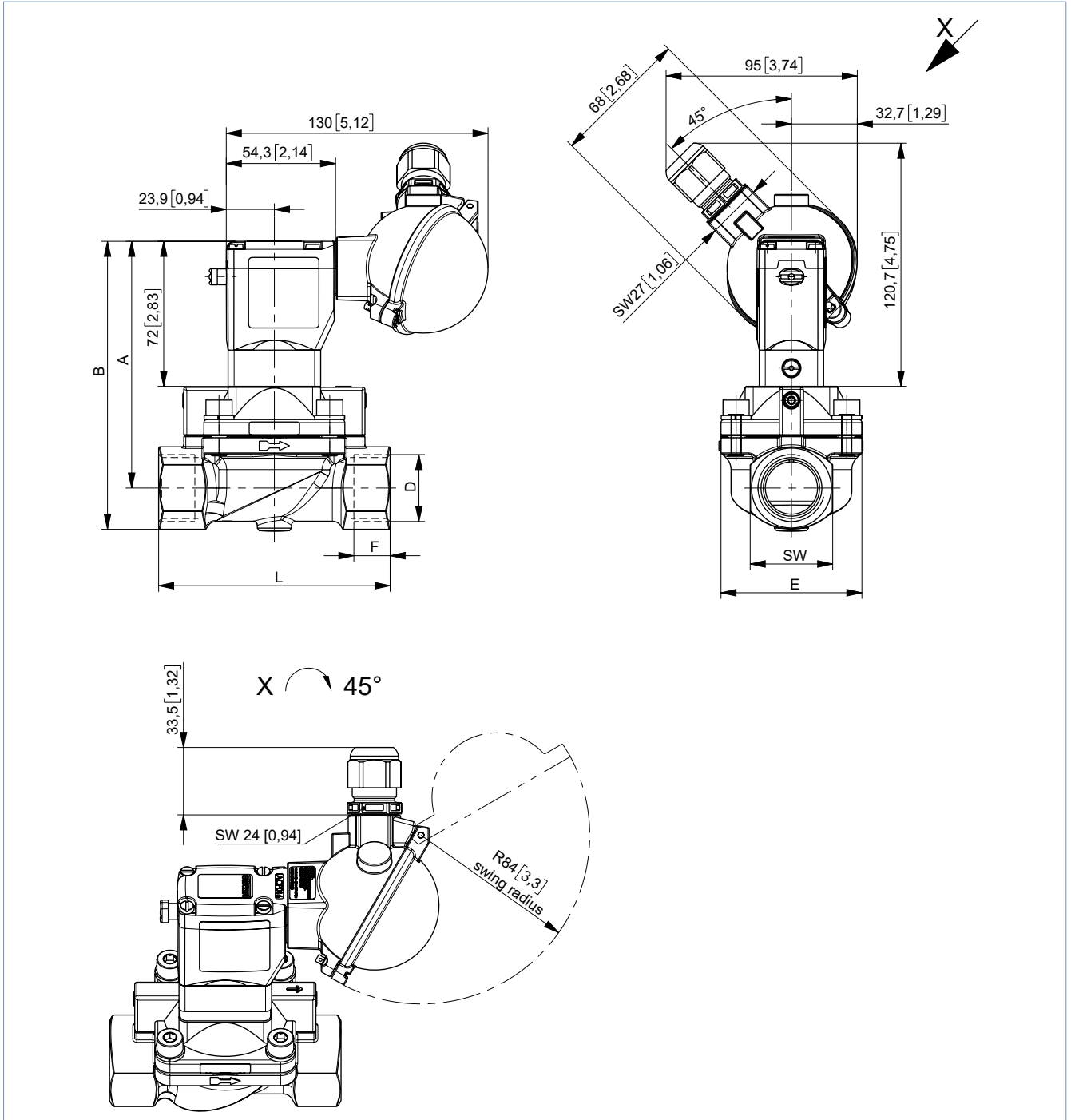
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5.2. Explosion-proof version – coil UL Listed (cULus) for hazardous locations, Class I, Division 2

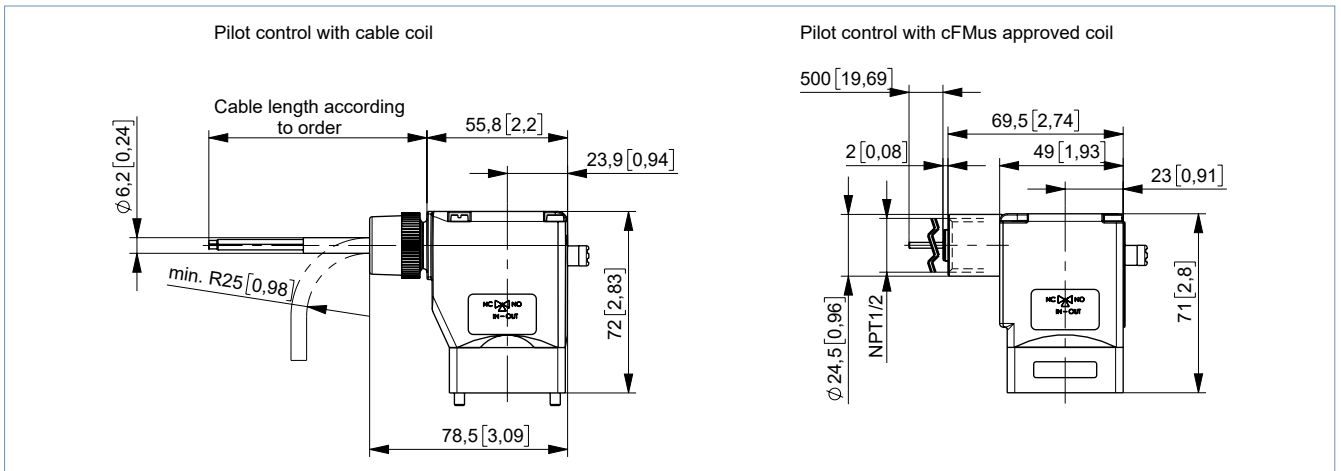
Threaded version

Note:

Dimensions in mm [inch]



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Body material	DN	A		B		D	F		E		L		SW	
		[mm]	[in]	[mm]	[in]	[Zoll]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]
Brass	13	110	4.33	124	4.88	NPT 1/2	13.7	0.54	40	1.57	65	2.56	27	1.06
	20	116	4.57	132	5.20	NPT 3/4	14	0.55	60	2.36	100	3.94	32	1.26
	25	122.5	4.82	143	5.63	NPT 1	16.8	0.66	70	2.76	115	4.53	41	1.61
	32	123	4.84	148	5.83	NPT 1 1/4	17.3	0.68	85	3.35	126	4.96	50	1.97
	40	127	5.00	157	6.18	NPT 1 1/2	17.3	0.68	85	3.35	126	4.96	60	2.36
	50	143.8	5.66	178.8	7.04	NPT 2	17.6	0.69	115	4.53	164	6.46	70	2.76
	65	143.5	5.65	186	7.32	NPT 2 1/2	23.6	0.93	115	4.53	180	7.09	85	3.35
Stainless steel	13	109	4.29	125	4.92	NPT 1/2	13.7	0.54	40	1.57	65	2.56	32	1.26
						NPT 3/4	14	0.55						
	20	116	4.57	132	5.20	NPT 1/2	13.7	0.54	60	2.36	100	3.94	32	1.26
						NPT 3/4	14	0.55						
	25	122.5	4.82	143	5.63	NPT 1	16.8	0.66	70	2.76	115	4.53	41	1.61
	32	123	4.84	148	5.83	NPT 1 1/4	17.3	0.68	85	3.35	126	4.96	50	1.97
	40	127	5.00	157	6.18	NPT 1 1/2	17.3	0.68	85	3.35	126	4.96	60	2.36
50	143.8	5.66	178.8	7.04	NPT 2	17.6	0.69	115	4.53	164	6.46	70	2.76	
65	143.5	5.65	186	7.32	NPT 2 1/2	23.6	0.93	115	4.53	180	7.09	85	3.35	

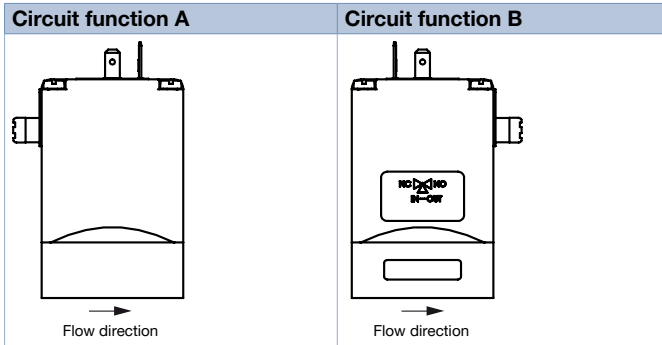
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6. Product installation

6.1. Mounting options

Note:

- The delivery condition corresponds to the order key. Turning the pilot valve through 180° changes the circuit function of the valve.
- The circuit function can only be changed for versions up to 145 psi.


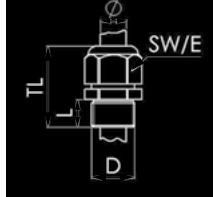

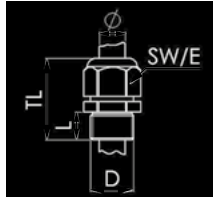


7. Product accessories

7.1. Cable glands for ATEX/IECEX terminal box

Note:

A polyamide cable gland is included in the scope of delivery. A nickel-plated brass version can be ordered for a surcharge, see “8.5. Ordering chart accessories” on page 18.

Description	Ex approvals		Dimensions										
	Certification	Identification											
Ex cable gland, Nickel-plated brass, 6...13 mm 	PTB 04 ATEX 1112 X, IECEx PTB 13.0027X	II 2 G Ex e IIC Gb, II 2 D Ex tb IIIC Db IP68	 <table border="1"> <tr><td>TL</td><td>29...37 mm</td></tr> <tr><td>L</td><td>6 mm</td></tr> <tr><td>D</td><td>20 mm</td></tr> <tr><td>SW</td><td>24 mm</td></tr> <tr><td>E</td><td>27 mm</td></tr> </table>	TL	29...37 mm	L	6 mm	D	20 mm	SW	24 mm	E	27 mm
TL	29...37 mm												
L	6 mm												
D	20 mm												
SW	24 mm												
E	27 mm												
Ex cable gland, Polyamide, 7...13 mm 	PTB 13 ATEX 1015 X, IECEx PTB 13.0034X	II 2 G Ex e IIC Gb, II 2 D Ex tb IIIC Db IP68	 <table border="1"> <tr><td>TL</td><td>36...45 mm</td></tr> <tr><td>L</td><td>10 mm</td></tr> <tr><td>D</td><td>20 mm</td></tr> <tr><td>SW</td><td>24 mm</td></tr> <tr><td>E</td><td>28 mm</td></tr> </table>	TL	36...45 mm	L	10 mm	D	20 mm	SW	24 mm	E	28 mm
TL	36...45 mm												
L	10 mm												
D	20 mm												
SW	24 mm												
E	28 mm												

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7.2. Special tool to turn the terminal box


Note:

This special tool is not included in the scope of delivery of the valve, see “8.5. Ordering chart accessories” on page 18.

Description	Components of the set
Set SC02-AC10 	<ul style="list-style-type: none"> • Special wrench • Service manual

8. Ordering information

8.1. Bürkert eShop




Bürkert eShop – Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

[Order online now](#)

8.2. Bürkert product filter

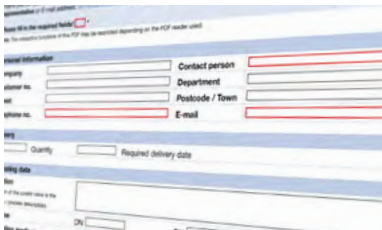


Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

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8.3. Bürkert Product Enquiry Form



Bürkert Product Enquiry Form – Your enquiry quickly and compactly

Would you like to make a specific product enquiry based on your technical requirements? Use our Product Enquiry Form for this purpose. There you will find all the relevant information for your Bürkert contact. This will enable us to provide you with the best possible advice.

[Fill out the form now](#)

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8.4. Ordering chart

Basic version with coil UL recognized (cURus)

Note:

Please note that the cable plug Type 2518 is included at the UL recognized versions. Further information can be found in chapter “Cable plug Type 2518, form A according to DIN EN 175301 - 803” on page 18 or separate data sheet **Type 2518**.

Circuit function	Port connection	Orifice	C _v flow coefficient water ^{1,2)}	Pressure range ³⁾ (MAWP ⁴⁾)	Weight	Article no.				
						024/DC	024/50...60	120/60	240/60	
						[V/Hz]	[V/Hz]	[V/Hz]	[V/Hz]	
[mm]	[gal/min]	[psi]	[lb]	[V/Hz]	[V/Hz]	[V/Hz]	[V/Hz]			
With threaded connection without manual override, without adjustable opening and closing times, with cable plug										
CF A	Brass body and seal material NBR, pressure range 3...232 psi									
2/2-way solenoid valve	NPT ½	13	4.6	3...232	2.09	20068761 ☞	o. r.	20068764 ☞	o. r.	
Servo-controlled	NPT ¾	20	7.5	3...232	3.09	20068762 ☞	o. r.	20068767 ☞	o. r.	
Normally closed	NPT 1	25	11.6	3...232	4.08	20068763 ☞	o. r.	20068768 ☞	o. r.	
	NPT 1¼	32	23.1	3...232	5.73	o. r.	o. r.	o. r.	o. r.	
	NPT 2	50	46.2	3...232	11.35	o. r.	o. r.	o. r.	o. r.	
	NPT 2½	65	46.2	3...232	13.01	o. r.	o. r.	o. r.	o. r.	
	Stainless steel body and seal material FKM, pressure range 3...174 psi									
	NPT ½	13	4.6	3...174	2.09	20068769 ☞	o. r.	20068772 ☞	o. r.	
NPT ¾	20	7.5	3...174	3.09	20068770 ☞	o. r.	20068773 ☞	o. r.		
NPT 1	25	11.6	3...174	4.08	20068771 ☞	o. r.	20068774 ☞	o. r.		
NPT 1¼	32	23.1	3...174	5.73	o. r.	o. r.	o. r.	o. r.		
NPT 1½	40	23.1	3...174	6.72	o. r.	o. r.	o. r.	o. r.		
NPT 2	50	46.2	3...174	11.35	o. r.	o. r.	o. r.	o. r.		
NPT 2½	65	46.2	3...174	13.01	o. r.	o. r.	o. r.	o. r.		

o. r. = on request

- 1.) Flow coefficient at +60 °F and pressure drop of 1 psi²⁾
- 2.) A pressure difference of 7.5 psi is required to open the full cross-section.
- 3.) Pressure data: overpressure to atmospheric pressure
- 4.) Maximum allowable working pressure

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UL Recognized & CSA approval – Brass body

Note:

Please note that the cable plug Type 2518 is included at the UL recognized versions. Further information can be found in chapter “Cable plug Type 2518, form A according to DIN EN 175301 - 803” on page 18 or separate data sheet **Type 2518** ▶.

Circuit function	Port connection	Orifice [mm]	C _v flow coefficient water ^{1,2)} [gal/min]	Pressure range ³⁾ (MAWP ⁴⁾ [psi]	Weight [lb]	Article no.			
						024/DC [V/Hz]	024/50...60 [V/Hz]	120/60 [V/Hz]	240/60 [V/Hz]
With threaded connection, manual override and cable plug									
CF A 2/2-way solenoid valve Servo-controlled, with manual override Normally closed									
	Seal material NBR, pressure range 3...145 psi								
	NPT ½	13	4.6	3...145	2.09	456890	456891	456892	456893
	NPT ¾	20	7.5	3...145	3.09	456894	456895	456896	456897
	NPT 1	25	11.6	3...145	4.08	456898	456899	456900	456901
	NPT 1¼	32	23.1	3...145	5.73	456902	456903	456904	456905
	NPT 1½	40	23.1	3...145	6.72	456906	456907	456908	456909
	NPT 2	50	46.2	3...145	11.35	456910	456911	456912	456913
NPT 2½	65	46.2	3...145	13.01	92704814	o. r.	o. r.	o. r.	
Seal material FKM, pressure range 3...145 psi									
	Seal material FKM, pressure range 3...145 psi								
	NPT ½	13	4.6	3...145	2.09	o. r.	o. r.	98106351	o. r.
	NPT ¾	20	7.5	3...145	3.09	o. r.	o. r.	o. r.	o. r.
	NPT 1	25	11.6	3...145	4.08	o. r.	o. r.	98106352	287149
	NPT 1¼	32	23.1	3...145	5.73	o. r.	o. r.	o. r.	o. r.
	NPT 1½	40	23.1	3...145	6.72	466250	462248	o. r.	o. r.
	NPT 2	50	46.2	3...145	11.35	o. r.	462249	o. r.	o. r.
NPT 2½	65	46.2	3...145	13.01	o. r.	o. r.	o. r.	o. r.	
Seal material EPDM, pressure range 3...145 psi									
	Seal material EPDM, pressure range 3...145 psi								
	NPT ½	13	4.6	3...145	2.09	o. r.	o. r.	o. r.	o. r.
	NPT ¾	20	7.5	3...145	3.09	o. r.	o. r.	o. r.	468653
	NPT 1	25	11.6	3...145	4.08	468029	466706	o. r.	o. r.
	NPT 1¼	32	23.1	3...145	5.73	o. r.	o. r.	o. r.	o. r.
	NPT 1½	40	23.1	3...145	6.72	o. r.	o. r.	o. r.	o. r.
	NPT 2	50	46.2	3...145	11.35	o. r.	o. r.	o. r.	o. r.
NPT 2½	65	46.2	3...145	13.01	o. r.	o. r.	o. r.	o. r.	
CF A 2/2-way solenoid valve Servo-controlled, with manual override Normally closed									
	Seal material NBR, pressure range 3...232 psi								
	NPT ½	13.0	4.6	3...232	2.09	o. r.	464500	o. r.	o. r.
	NPT ¾	20.0	7.5	3...232	3.09	o. r.	o. r.	o. r.	o. r.
	NPT 1	25.0	11.6	3...232	4.08	o. r.	o. r.	o. r.	o. r.
	NPT 1¼	32.0	23.1	3...232	5.73	o. r.	o. r.	o. r.	o. r.
	NPT 1½	40.0	23.1	3...232	6.72	o. r.	o. r.	o. r.	o. r.
	NPT 2	50.0	46.2	3...232	11.35	o. r.	o. r.	o. r.	o. r.
CF B 2/2-way solenoid valve Servo-controlled, with manual override Normally open									
	Seal material NBR, pressure range 3...232 psi								
	NPT ½	13.0	4.6	3...232	2.09	o. r.	o. r.	o. r.	o. r.
	NPT ¾	20.0	7.5	3...232	3.09	o. r.	o. r.	o. r.	o. r.
	NPT 1	25.0	11.6	3...232	4.08	o. r.	o. r.	o. r.	o. r.
	NPT 1¼	32.0	23.1	3...232	5.73	o. r.	o. r.	o. r.	o. r.
	NPT 1½	40.0	23.1	3...232	6.72	o. r.	o. r.	o. r.	o. r.
	NPT 2	50.0	46.2	3...232	11.35	o. r.	o. r.	o. r.	o. r.

o. r. = on request

1.) Flow coefficient at + 60 °F and pressure drop of 1 psi²⁾

2.) A pressure difference of 7.5 psi is required to open the full cross-section.

3.) Pressure data: overpressure to atmospheric pressure

4.) Maximum allowable working pressure

DTS 1000082431 EN Version: | Status: RL (released | freigegeben | valide) printed: 11.12.2023

UL Recognized & CSA approval – Stainless steel body

Note:

Please note that the cable plug Type 2518 is included at the UL recognized versions. Further information can be found in chapter “**Cable plug Type 2518, form A according to DIN EN 175301 - 803**” on page 18 or separate data sheet **Type 2518** ▶.

Circuit function	Port connection	Orifice [mm]	C _v flow coefficient water ^{1,2)} [gal/min]	Pressure range ³⁾ (MAWP ⁴⁾ [psi]	Weight [lb]	Article no.			
						024/DC [V/Hz]	024/50...60 [V/Hz]	120/60 [V/Hz]	240/60 [V/Hz]
With threaded connection, manual override and cable plug									
CF A 2/2-way solenoid valve Servo-controlled, with manual override Normally closed 	Seal material NBR, pressure range 3...145 psi								
	NPT ½	13	4.6	3...145	2.09	o. r.	o. r.	o. r.	o. r.
	NPT ¾	20	7.5	3...145	3.09	463442 ㉞	o. r.	o. r.	o. r.
	NPT 1	25	11.6	3...145	4.08	463441 ㉞	o. r.	462248 ㉞	o. r.
	NPT 1¼	32	23.1	3...145	5.73	o. r.	o. r.	o. r.	o. r.
	NPT 1½	40	23.1	3...145	6.72	o. r.	o. r.	o. r.	o. r.
	NPT 2	50	46.2	3...145	11.35	o. r.	o. r.	o. r.	o. r.
	Seal material FKM, pressure range 3...145 psi								
	NPT ½	13	4.6	3...145	2.09	o. r.	o. r.	463867 ㉞	o. r.
	NPT ¾	20	7.5	3...145	3.09	456918 ㉞	456919 ㉞	456920 ㉞	456921 ㉞
NPT 1	25	11.6	3...145	4.08	456922 ㉞	456923 ㉞	456924 ㉞	456925 ㉞	
NPT 1¼	32	23.1	3...145	5.73	456926 ㉞	456927 ㉞	456928 ㉞	456929 ㉞	
NPT 1½	40	23.1	3...145	6.72	456930 ㉞	456931 ㉞	456932 ㉞	456933 ㉞	
NPT 2	50	46.2	3...145	11.35	456934 ㉞	456935 ㉞	456936 ㉞	456937 ㉞	
CF B 2/2-way solenoid valve Servo-controlled, with manual override Normally open 	Seal material EPDM, pressure range 3...145 psi								
	NPT ½	13	4.6	3...145	2.09	463868 ㉞	o. r.	463869 ㉞	o. r.
	NPT ¾	20	7.5	3...145	3.09	464457 ㉞	465040 ㉞	o. r.	o. r.
	NPT 1	25	11.6	3...145	4.08	20002392 ㉞	o. r.	o. r.	o. r.
	NPT 1¼	32	23.1	3...145	5.73	o. r.	o. r.	o. r.	o. r.
	NPT 1½	40	23.1	3...145	6.72	20002392 ㉞	o. r.	465284 ㉞	o. r.
	NPT 2	50	46.2	3...145	11.35	o. r.	o. r.	20014104 ㉞	o. r.

o. r. = on request

- 1.) Flow coefficient at +60 °F and pressure drop of 1 psi²⁾
- 2.) A pressure difference of 7.5 psi is required to open the full cross-section.
- 3.) Pressure data: overpressure to atmospheric pressure
- 4.) Maximum allowable working pressure

DTS 1000082431 EN Version: | Status: RL (released | freigegeben | valide) printed: 11.12.2023

UL Listed – Brass body

Note:

Please note that the cable plug Type 2509 is included at the UL Listed versions. Further information can be found in chapter “Cable plug Type 2509, form A according to DIN EN 175301 - 803” on page 18 or separate data sheet Type 2509 ▶.

Circuit function	Port connection	Orifice [mm]	C _v flow coefficient water ^{1.)2.)} [gal/min]	Pressure range ^{3.)} (MAWP ^{4.)} [psi]	Weight [lb]	Article no.			
						024/DC [V/Hz]	024/50...60 [V/Hz]	120/60 [V/Hz]	240/60 [V/Hz]
With threaded connection, manual override and cable plug									
CF A 2/2-way solenoid valve Servo-controlled, with manual override Normally closed									
Seal material NBR, pressure range 3...145 psi									
	NPT ½	13.0	4.6	3...145	2.09	329291	329331	329285	329325
	NPT ¾	20.0	7.5	3...145	3.09	329299	o. r.	329293	329326
	NPT 1	25.0	11.6	3...145	4.08	329288	329327	329286	o. r.
	NPT 1¼	32.0	23.1	3...145	5.73	341697	o. r.	329333	329334
	NPT 1½	40.0	23.1	3...145	6.72	329303	o. r.	329311	o. r.
	NPT 2	50.0	46.2	3...145	11.35	329298	o. r.	329284	o. r.
	NPT 2½	65.0	46.2	3...145	13.01	o. r.	o. r.	o. r.	o. r.
Seal material FKM, pressure range 3...145 psi									
	NPT ½	13.0	4.6	3...145	2.09	329313	o. r.	o. r.	o. r.
	NPT ¾	20.0	7.5	3...145	3.09	o. r.	o. r.	o. r.	o. r.
	NPT 1	25.0	11.6	3...145	4.08	o. r.	o. r.	o. r.	o. r.
	NPT 1¼	32.0	23.1	3...145	5.73	o. r.	o. r.	329336	o. r.
	NPT 1½	40.0	23.1	3...145	6.72	o. r.	o. r.	o. r.	o. r.
	NPT 2	50.0	46.2	3...145	11.35	o. r.	o. r.	o. r.	o. r.
	NPT 2½	65.0	46.2	3...145	13.01	o. r.	o. r.	o. r.	o. r.
CF B 2/2-way solenoid valve Servo-controlled, with manual override Normally open									
Seal material EPDM, pressure range 3...145 psi									
	NPT ½	13.0	4.6	3...145	2.09	329330	o. r.	o. r.	o. r.
	NPT ¾	20.0	7.5	3...145	3.09	o. r.	o. r.	o. r.	o. r.
	NPT 1	25.0	11.6	3...145	4.08	o. r.	o. r.	o. r.	o. r.
	NPT 1¼	32.0	23.1	3...145	5.73	o. r.	o. r.	o. r.	o. r.
	NPT 1½	40.0	23.1	3...145	6.72	o. r.	o. r.	o. r.	o. r.
	NPT 2	50.0	46.2	3...145	11.35	o. r.	o. r.	o. r.	o. r.
	NPT 2½	65.0	46.2	3...145	13.01	o. r.	o. r.	o. r.	o. r.
Seal material NBR, pressure range 3...232 psi									
	NPT ½	13.0	4.6	3...232	2.09	20068156	o. r.	20068157	o. r.
	NPT ¾	20.0	7.5	3...232	3.09	20068158	o. r.	20068159	o. r.
	NPT 1	25.0	11.6	3...232	4.08	20068162	o. r.	20068163	o. r.
	NPT 1¼	32.0	23.1	3...232	5.73	20068166	o. r.	20068167	o. r.
	NPT 1½	40.0	23.1	3...232	6.72	20068170	o. r.	20068172	o. r.
	NPT 2	50.0	46.2	3...232	11.35	20068177	o. r.	20068178	o. r.
Seal material FKM, pressure range 3...232 psi									
	NPT ½	13.0	4.6	3...232	2.09	o. r.	o. r.	o. r.	o. r.
	NPT ¾	20.0	7.5	3...232	3.09	o. r.	o. r.	o. r.	o. r.
	NPT 1	25.0	11.6	3...232	4.08	o. r.	o. r.	o. r.	o. r.
	NPT 1¼	32.0	23.1	3...232	5.73	o. r.	o. r.	o. r.	o. r.
	NPT 1½	40.0	23.1	3...232	6.72	o. r.	o. r.	o. r.	o. r.
	NPT 2	50.0	46.2	3...232	11.35	o. r.	o. r.	o. r.	o. r.

o. r. = on request

1.) Flow coefficient at + 60 °F and pressure drop of 1 psi^{2.)}

2.) A pressure difference of 7.5 psi is required to open the full cross-section.

3.) Pressure data: overpressure to atmospheric pressure

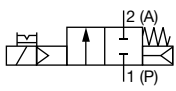
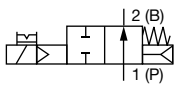
4.) Maximum allowable working pressure

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UL Listed – Stainless steel body





Note:

Please note that the cable plug Type 2509 is included at the UL Listed versions. Further information can be found in chapter “Cable plug Type 2509, form A according to DIN EN 175301 - 803” on page 18 or separate data sheet **Type 2509** ▶.

Circuit function	Port connection	Orifice [mm]	C _v flow coefficient water ^{1,2)} [gal/min]	Pressure range ³⁾ (MAWP ⁴⁾ [psi]	Weight [lb]	Article no.			
						024/DC [V/Hz]	024/50...60 [V/Hz]	120/60 [V/Hz]	240/60 [V/Hz]
With threaded connection, manual override and cable plug									
CF A 2/2-way solenoid valve Servo-controlled, with manual override Normally closed 	Seal material NBR, pressure range 3...145 psi								
	NPT ½	13.0	4.6	3...145	2.09	329297	o. r.	o. r.	o. r.
	NPT ¾	20.0	7.5	3...145	3.09	o. r.	o. r.	o. r.	o. r.
	NPT 1	25.0	11.6	3...145	4.08	o. r.	o. r.	o. r.	o. r.
	NPT 1¼	32.0	23.1	3...145	5.73	o. r.	o. r.	o. r.	o. r.
	NPT 1½	40.0	23.1	3...145	6.72	o. r.	o. r.	o. r.	o. r.
	NPT 2	50.0	46.2	3...145	11.35	o. r.	o. r.	o. r.	o. r.
	Seal material FKM, pressure range 3...145 psi								
	NPT ½	13.0	4.6	3...145	2.09	o. r.	o. r.	o. r.	o. r.
	NPT ¾	20.0	7.5	3...145	3.09	329304	o. r.	329282	o. r.
CF B 2/2-way solenoid valve Servo-controlled, with manual override Normally open 	NPT 1	25.0	11.6	3...145	4.08	329310	o. r.	329290	o. r.
	NPT 1¼	32.0	23.1	3...145	5.73	329337	o. r.	329328	o. r.
	NPT 1½	40.0	23.1	3...145	6.72	329305	o. r.	329292	o. r.
	NPT 2	50.0	46.2	3...145	11.35	329323	o. r.	329324	o. r.
	Seal material EPDM, pressure range 3...145 psi								
	NPT ½	13.0	4.6	3...145	2.09	o. r.	o. r.	o. r.	o. r.
	NPT ¾	20.0	7.5	3...145	3.09	o. r.	o. r.	o. r.	o. r.
	NPT 1	25.0	11.6	3...145	4.08	o. r.	o. r.	o. r.	o. r.
	NPT 1¼	32.0	23.1	3...145	5.73	o. r.	o. r.	329320	o. r.
	NPT 1½	40.0	23.1	3...145	6.72	o. r.	o. r.	o. r.	o. r.
NPT 2	50.0	46.2	3...145	11.35	o. r.	o. r.	o. r.	o. r.	

o. r. = on request

- 1.) Flow coefficient at +60 °F and pressure drop of 1 psi²⁾
- 2.) A pressure difference of 7.5 psi is required to open the full cross-section.
- 3.) Pressure data: overpressure to atmospheric pressure
- 4.) Maximum allowable working pressure

Further versions on request	
 Additional With optical position indicator or electrical position feedback sensor as potential-free contact or Namur signal	 Pressure Pressure range up to 232 psi
 Approval UL, UR, CSA, Hazardous Locations Expl. proof, Ex, KOSHA, NEPSI, CGA/AGA, FM Ex Div. 1 or 2, drinking water approval acc. to UBA assessment principles (PF36/PF39), impulse version	 Voltage Further voltages

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Explosion-proof version – coil UL Listed (cULus) for hazardous locations, Class I, Division 2

Note:

- Max. switching frequency 20/min at max. medium temperature 158 °F and max. ambient temperature 104 °F
- Max. switching frequency 5/min at max. medium temperature 194 °F and max. ambient temperature 131 °F

Circuit function	Port connection	Orifice [mm]	C _v flow coefficient water ^{1,2)} [gal/min]	Pressure range ³⁾ (MAWP ⁴⁾) [psi]	Weight [lb]	Article no.		
						024/AC/DC	120/AC/DC	
						[V/Hz]	[V/Hz]	
With manual override and terminal connection box								
CF A 2/2-way solenoid valve Servo-controlled, with manual override Normally closed 	Brass body with threaded connection, seal material FKM							
	NPT 1/2	13.0	4.6	7...145	2.09	o. r.	o. r.	
	NPT 3/4	20.0	7.5	7...145	3.09	o. r.	o. r.	
	NPT 1	25.0	11.6	7...145	4.08	o. r.	387818 𐀀	
	NPT 1 1/4	32.0	23.1	7...145	5.73	o. r.	o. r.	
	NPT 1 1/2	40.0	23.1	7...145	6.72	o. r.	o. r.	
	NPT 2	50.0	46.2	7...145	11.35	o. r.	o. r.	
	Stainless steel body with threaded connection, seal material FKM							
	NPT 1/2	13.0	4.6	7...145	2.09	o. r.	o. r.	
	NPT 3/4	20.0	7.5	7...145	3.09	20027492 𐀀	o. r.	
	NPT 1	25.0	11.6	7...145	4.08	o. r.	o. r.	
	NPT 1 1/4	32.0	23.1	7...145	5.73	o. r.	o. r.	
	NPT 1 1/2	40.0	23.1	7...145	6.72	o. r.	o. r.	
	NPT 2	50.0	46.2	7...145	11.35	20067637 𐀀	o. r.	
With manual override and cable outlet, cable 3 m								
CF A 2/2-way solenoid valve Servo-controlled, with manual override Normally closed 	Brass body with threaded connection, seal material NBR							
	NPT 1/2	13.0	4.6	7...145	2.09	o. r.	376521 𐀀	
	NPT 3/4	20.0	7.5	7...145	3.09	387683 𐀀	377257 𐀀	
	NPT 1	25.0	11.6	7...145	4.08	o. r.	o. r.	
	NPT 1 1/4	32.0	23.1	7...145	5.73	o. r.	o. r.	
	NPT 1 1/2	40.0	23.1	7...145	6.72	o. r.	20002918 𐀀	
	NPT 2	50.0	46.2	7...145	11.35	o. r.	o. r.	
	NPT 2 1/2	65.0	46.2	7...145	13.01	20002394 𐀀	o. r.	
	CF B 2/2-way solenoid valve Servo-controlled, with manual override Normally open 							

o. r. = on request
 1.) Flow coefficient at +60 °F and pressure drop of 1 psi²⁾
 2.) A pressure difference of 7.5 psi is required to open the full cross-section.
 3.) Pressure data: overpressure to atmospheric pressure
 4.) Maximum allowable working pressure

Further versions on request	
Material Seal material: NBR, FKM, EPDM	Pressure Pressure range up to 232 psi
Voltage 110/UC	

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8.5. Ordering chart accessories

Cable plug Type 2518, form A according to DIN EN 175301 - 803

Note:

For further versions see data sheet [Type 2518](#) ▶.

Cable plug	Dimensions	Version	Voltage	Article no.
		Without circuitry (AC/DC)	0...250 V AC/DC	314802
		With LED (AC/DC)	12...24 V AC/DC	314812
		With LED and varistor (AC/DC)	12...24 V AC/DC	314820
		With rectifier, LED and varistor	12...24 V AC/DC	314816
		Without circuitry (AC/DC) with silicone seal for higher ambient temperature, e.g. steam version (NA07)	0...250 V AC/DC	361687

Cable plug Type 2509, form A according to DIN EN 175301 - 803

Note:

- Without circuitry (standard)
- Refer to data sheet [Type 2509](#) ▶ for more information about the cable plug.

Cable plug	Dimensions	Version	Voltage	Article no.
		Without circuitry	0...250 V AC/DC	137943

Cable glands for ATEX/IECEX terminal box

Note:

- A cable gland in polyamide version is included in the delivery. A nickel-plated brass version can be ordered at surcharge.
- Refer to [“7.1. Cable glands for ATEX/IECEX terminal box”](#) on page 10 for more information about Ex cable glands.
- Refer to [“7.2. Special tool to turn the terminal box”](#) on page 11 for more information about Ex cable glands.

Description	Article no.
Ex cable gland, nickel-plated brass, 6...13 mm ¹⁾	773278
Ex cable gland, polyamide, 7...13 mm ¹⁾	773277
Set SC02-AC10: special wrench ²⁾ incl. service manual	293488

1.) Cable diameter

2.) Not included in the scope of delivery of the valve